

4-06-06

IFW 1614



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In patent application of:

Richard L. GREGORY

Application No. 10/009,004

Filed May, 7, 2002

)  
) Before the Examiner  
) DELACROIX MUIRHE, CYBILLE  
)  
) Group Art Unit  
) 1614  
)  
)

INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT  
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Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97, and 1.98, Applicant requests consideration of the references listed on the attached PTO/SB/08 forms and/or the additional information identified below.

A legible copy of each foreign patent document and publication listed on the PTO/SB/08 form is enclosed.

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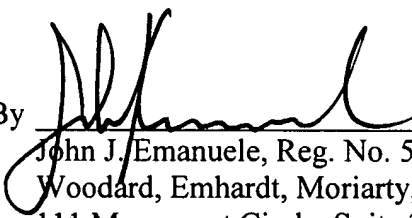
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Respectfully submitted,

By   
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PTO/SB/08A (09-03)

Approved for use through 07/31/2006. OMB 0851-0031

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/009,004
				Filing Date	11/5/2001
				First Named Inventor	GREGORY
				Group Art Unit	
				Examiner Name	
Sheet	1	of	4	Attorney Docket Number	7037-405
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		3,070,510	12-25-1962	Cooley	
		3,429,963	02-25-1969	Shedlovsky	
		3,538,230	03-02-1970	Pader	
		3,678,154	07-18-1972	Widder	
		3,686,393	08-22-1972	Woodruff	
		3,737,533	06-05-1973	Francis	
		3,862,307	06-21-1975	DiGiulio	
		3,959,458	05-25-1976	Agricola	
		3,988,443	10-26-1976	Ploger	
		4,051,234	09-27-1977	Gieske	
		4,083,955	04-11-1978	Grabenstetter	
		4,139,627	02-13-1979	Lane	
		4,304,766	12-08-1981	Chang	
		4,312,889	01-26-1982	Melsheimer	
		4,340,583	07-20-1982	Wason	
		4,353,891	10-12-1982	Guggenheim	
		4,590,066	05-20-1986	Parran	
		4,661,341	04-28-1987	Benedict	
		4,670,252	06-02-1987	Sampathkumar	
		4,846,650	07-11-1989	Benedict	
		4,877,603	10-31-1989	Degenhardt	
		4,919,918	04-24-1990	Cole	
Examiner Signature			Date Considered		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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		4,931,473	06-05-1990	Kelleher	
		5,143,720	09-01-1992	Lopes	
		5,283,056	02-01-1994	Chung	
		5,284,648	02-08-1994	White	
		5,352,446	10-04-1994	Lehner	
		5,500,206	03-19-1996	Charbonneau	
		6,254,856	07-03-2001	Tsuchiya	
		6,355,228	03-12-1992	Fuglsang	

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				First Named Inventor		GREGORY	
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				Examiner Name			
Sheet	3	of	4	Attorney Docket Number		7037-405	
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Examiner Initials*	Cite <sup>1</sup> No.	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>5</sup> (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		WO 00/66616 A1		11-09-2000	Advanced Research		<input type="checkbox"/>

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				Examiner Name	
				Attorney Docket Number	7037-405
Sheet	4	of	4		

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T <sup>2</sup>
		BEUKES, M., "Purification and Partial Characterization of a Murein Hydrolase, Millericin B, Produced by Streptococcus milleri MNSCC 061", Applied Environ. Microbiol., Jan. 2000, Vol./Issue No. 66(1), pp. 23-28	<input type="checkbox"/>
		BROWN, ALAN E., "Prevalence of the Amylase-Binding Protein A Gene (abpA) in Oral Streptococci", J. Clin. Microbiol., Dec. 1999, Vol./Issue No. 37(12), pp. 4081-4085	<input type="checkbox"/>
		BURNE, ROBERT A., "Regulation of Expression of the Fructan Hydrolase Gene of Streptococcus mutans GS-5 by Induction and Carbon Catabolite Repression", J. Bacteriology, May 1999, Vol./Issue No. 181(9) pp. 2863-2871	<input type="checkbox"/>
		CHIA, JEAN-SAN, "A 60-Kilodalton Immunodominant Glycoprotein Is Essential for Cell Wall Integrity and the Maintenance of Cell Shape in Streptococcus mutans", Infect. Immun., Nov. 2001, Vol./Issue No. 69(11) pp. 6987-6998	<input type="checkbox"/>
		FONTANA, MARGHERITA, "An In Vitro Microbial-Caries Model Used to Study the Efficacy of Antibodies to Streptococcus mutans Surface Proteins in Preventing Dental Caries", Clin. Diagnostic Lab. Immun., Jan. 2000, Vol./Issue No. 7(1) pp. 49-54	<input type="checkbox"/>
		GENBANK ACCESSION NO. A60328, "40K cell wall protein precursor (sr 5' region) - Streptococcus mutans (strain OMZ175, serotype f)", 2/20/1993	<input type="checkbox"/>
		KIM ET AL, "Purification and properties of bacteriolytic enzymes from Bacillus licheniformis YS-1005 against Stretococcus mutans", Biosci Biotechnol Biochem, Jan 1999, Vol./Issue No. 63, 1, pp. 73-77	<input type="checkbox"/>
		OGIER ET AL, "A 40-kilodalton cell wall protein-coding sequence upstream of the sr gene of Streptococcus mutans OMZ175 (serotype f)", Infect Immun, May 1991, Vol./Issue No. 59, 5, pp. 1620-1626	<input type="checkbox"/>
		RAY, CHAD A., "Interactions of Streptococcus mutans Fimbria-Associated Surface Proteins with Salivary Components", Clin. Diagnostic Lab. Immun., May 1999, Vol./Issue No. 6(3), pp. 400-404	<input type="checkbox"/>
		ROGERS, JEFFREY D., "Role of Streptococcus gordonii Amylase-Binding Protein A in Adhesion to Hydroxyapatite, Starch Metabolism, and Biofilm Formation", Infect. Immun., Nov. 2001, Vol./Issue No. 69(11) pp. 7046-7056	<input type="checkbox"/>
		ROGERS, JEFFREY D., "RegG, a CcpA Homolog, Participates in Regulation of Amylase-Binding Protein A Gene (abpA) Expression in Streptococcus gordonii", J. Bacteriology, June 2001, Vol./Issue No. 183(11) pp. 3521-3525	<input type="checkbox"/>
		ZIMMER, MARKUS, "The Murein Hydrolase of the Bacteriophage 3626 Dual Lysis System Is Active against All Tested Clostridium perfringens Strains", Applied Environ. Microbiol., Nov. 2002, Vol./Issue No. 68(11) pp. 5311-5317	<input type="checkbox"/>

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